Substitute for form 1449/P/10
(Revised 07/2005)

INFORMATION DISCLOSURE
STATEMENT BOAPPLICANT
(Use as many sheets as macrostary)

Sheet

	Complete if Known
Application Number	10/751,702
Filing Date	1/5/04
First Named Inventor	Tuomanen
Group Art Unit	1645
Examiner Name	N. Minnifield
Attorney Docket Number	044158/273011

		<u> </u>	). S. F	PATENT DOC	UMENTS		
Examiner Cite No.		Document Number  Number - Kind Code (if known)		lication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Wher Relevant Passages of Relevant Fi Appear	
/NMM/	33	US-6,573,082	06-	03-2003	CHOI et al.		
_	34	US-6,500,613	12-	31-2002	BRILES et al.		
	35	US-6,784,164	S-6,784,164 08-31-2004		MASCLE et al.		
	36	US-6,698,369	02-2004		KOENIG et al.		
	37	US-2002/0061545	05-23-2003		CHOI et al.		
	38	US-2003/0059438	03-27-2003		BRILES et al.		
	39	US-2003/0091577	05-15-2003		GILBERT et al.		·
1	40	US-2003/0096950	05-22-2003		TUOMANEN et al.		, .
/NMM/	41	US-2003/0138447	07-	24-2003	WIZEMANN et al.		•
		FOR	REIG	N PATENT D	OCUMENTS		
Examiner Initials	Cite No.	Foreign Patent Document  Country Code - Number Kind Code (if known)	de	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	English Language Translation Attached

	•	OTHER DOCUME	ENTS	٠	•					
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published.  English L Transl Attac								
/NMM/	42	Protein, PspC, Which Elicits Cross-Reactive Antibodies	BROOKS-WLATER, "The pspC Gene of Streptococcus pneumoniae Encodes a Polymorphic Protein, PspC, Which Elicits Cross-Reactive Antibodies to PspA and Provides Immunity to Pneumococcal Bacteremia," Infection and Immunity, 1999, pp. 6533-6542, Vol. 67(12).							
/NMM/	43	CHENG, Q., et al., "Novel Purification Scheme and Functions for a C3-Binding Protein From Streptococus pneumonta, Biochemistry, 2000, pp. 5450-5457, Vol. 39.								
/NMM/	44	HOSKINS, J., et al., "Genome of the Bacterium Streptococcus pneumoniae Strain R6," J. of Bacteriology, 2001, pp. 5709-5717, Vol. 183(19).								
/NMM/	45	IANNELLI, F., et al., "Allelic Variation in the Highly Polymorphic LocuspspC of Streptococcus pneumoniae," Gene, 2002, pp. 63-71, Vol. 284.								
/NMM/	46	TETTELIN, H., et al., "Complete Genome Sequence of pneumoniae," Science, 2001, pp. 498-506, Vol. 293.	A Virulent Isolate oßtrepte	ococcus						
Examiner /N. M. Minnifield/ (04/10/2007) Date 04/10/2007 Signature Considered										

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. LEGAL02/30221320v1

FILED 01-05-04 Substitute for form 1449A/PTO Complete if Known To be Assigned 10/75/702 **Application Number INFORMATION** DISCLOSURE Filing Date Concurrently Herewith 01-05-04 STATEMENT BY APPLICANT Tuomanen First Named Inventor 1645 Group Art Unit To be Assigned MINNIFIBO (Use as many sheets as necessary) To be Assigned **Examiner Name** 044158/273011 JAN 1 1 2007 Sheet Attorney Docket Number of **U. S. PATENT DOCUMENTS** & ADBUAR U.S. Patent Document Date of Where Relevant Passages of Kind Code<sup>2</sup> Name of Patentee or Applicant **Examiner** Cite Publication of Relevant Figures Appear Initials\* No.1 Number (if known) Of Cited Document Cited Document MM-DD-YYYY 1 /NMM/ US-4,925,673 STEINER et al. 05-15-1990 2 US-5,013,556 WOODLE et al. 05-07-1991 3 US-5,284,656 PLATZ et al. 02-08-1994 4 US-5,451,569 WONG et al. 09-15-1995 5 US-6,245,335 MASURE et al. 06-12-2001 6 US-6,291,654 HOSTETTER et al. 09-18-2001 7 US-6,420,135 07-16-2002 KUNSCH et al. 8 /NMM/ US-6,503,511 WIZEMANN et al. 01-07-2003 FOREIGN PATENT DOCUMENTS Pages, Columns, Lines. Date of Foreign Patent Document Where Relevant Cite Kind Code Name of Patentee or Applicant Publication of Examiner Passages or Relevant Initials No. Office3 Number4 (if known)<sup>5</sup> of Cited Document Cited Document Figures Appear MM-DD-YYYY ISHIKAWA, R. 03-13-1996 9 EP. 401,384 /NMM/ 10 wo MASURE, H., et al. 11-06-1997 1-53 97/41151 11 wo 97/09994 BRILES, D., et al. 03-20-1997 1-28, 40, 53 12 wo 98/21337 HOSTETTER, M., et al. 05-22-1998 1-53 wo 13 KUNSCH, C., et al. 05-07-1998 1-53 98/18930 WO 99/51187 TUOMANEN, E., et al. 10-14-1999 1-53 14 WIZEMANN, T., et al. 10-14-1999 1-53 15 WO 99/51266 /NMM/

/NMM/ 04/10/2007 (04/10/2007)

Cite

No.

16

Examiner

/NMM/

Initials

city and/or country where published.

acetate in healthy male volunteers" Pharma Res., 1990, pp. 565-569, Vol. 7.

**OTHER DOCUMENTS** 

Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volumeissue number(s), publisher,

ADJEI et al., "Pulmonary delivery of peptide drugs: effect of particle size on bioavailability of leuprolide

T

<sup>&</sup>lt;sup>1</sup> Unique citation designation number.

<sup>&</sup>lt;sup>2</sup> See attached Kinds of U.S. Patent Documents.

<sup>&</sup>lt;sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

<sup>&</sup>lt;sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible.

<sup>&</sup>lt;sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.



Substitute for form 1449A/PTO				Complete if Known					
·				Application Number To be Assigned 10 75 702					
INFORMATION DISCLOSURE STATEMENT BY APPLICANT			URE	Filing Date	Concurrently Herewith 01-05-0				
			ANT	First Named Inventor Tuomanen					
				Group Art Unit	To be Assigne				
(Use	as many she	ets as necessary)		Examiner Name	To be Assigne	ed MINNIFIELD			
Sheet	2	of	2	Attorney Docket Number	044158/2730	11			
				OTHER DOCUMENTS		•			
Examiner Initials	Cite No.		nal, serial	or (in CAPITAL LETTERS), title of , symposium, catalog, etc.), date, pag					
/NMM/	17			ptor specificity of adherence of Strept ar endothelial cells in vitro," <i>Micro Po</i>					
·	18			otococcus pneumoniae anchor to activated human cells by the receptor for platelet e, 1995, pp. 435-438, Vol. 377.					
	19			al, "SpsA, a novel pneumococcal su ecretory component," Mol. Microbiol		• • • • • • • • • • • • • • • • • • • •			
	20				Oligosaccharides interfere with the establishment and progression of nia," J. Infect. Dis., 1997, pp. 704-712, Vol. 176.				
	21	LANGER, "Ne	w method	ds of drug delivery," Science, pp. 1527-1533, Vol. 249.					
	22			lene glycol (PEG)modified granulocy logical activity," <i>Exp. Hematol.</i> , 1992					
	23			lecular localization of variable and co gous sequences in Streptococcus pneu					
	24	NEWMARK et	al., " J. 7	Appl. Biochem., 1982, pp. 185-189, Vol. 4.					
	25		-	MACEUTICAL SCIENCES, 18th ed.,		ck Publishing Co., Easton,			
	26			cal role of the pneumococcal amidase ochem., 1987, pp. 621-624, Vol. 164.	. Cloning of thelytA	gene in Streptococcus			
	27			tribution of novel choline-binding pro tococcus pneumoniae," <i>Mol. Microbi</i>					
	SHAPIRO et al., "The protective efficacy of polyvalent pneumococcal polysaccharide vaccine," WJEM 1991, p. 1453, Vol. 325.								
	29			enotypic tolerance: the search for bet 1986, p. 279, Vol. 8, Suppl. 3.	alactam antibiotics t	hat kill nongrowing			
	30			crobiological and clinical significanc <i>J. Infect Dis.</i> , 1988, pp. 36-43, Vol.		of defective lysis in clinical			
W	31	TUOMANEN	e <i>t al.</i> , "Pa	athogenesis of pneumococcal infection," NEJM, 1995, pp. 1280, Vol. 322.					
/NMM/	32			Their Drug Carrier System, 1991, pp.					
Examiner Signature	/N. N	M. Minnifield/ (0	04/10/20	07)	Date Considered	04/10/2007			

<sup>\*</sup>Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

LEGAL02/2147980v1

## FOR SCANNING ONLY

C. Larieran C	Co 14	140 A /D/TYC	<del></del>		C	-lete if Vnouvn			
Substitute (	or torm 14	MYNVFIC	,		Com Application Number	plete if Known To be Assigned	10 751702		
INFORMATION					IPPREBRIOR THRIBE	A V VV A IVVIENIVU			
DISCLOSURE STATEMENT BY APPLICANT			,	Filing Date	Concurrently He	rewith			
				irst Named Inventor	Tuomanen	-			
DIMIL					Group Art Unit	To be Assigned 1645			
(U	se as man	y sheeis a	s necessary)		Examiner Name	To be Assigned MINNIFIELD			
Sheet	1		of	2 4	Attorney Docket Number	044158/273011			
					· · · · · · · · · · · · · · · · · · ·	1			
	г	111	Patent Docum		PATENT DOCUMENTS	Data of	Pages Cohums Li		
Examiner Initials*	Cite No.1	Numb	Kin	d Code <sup>2</sup> known)	Name of Patentee or Applicant Of Cited Document	Date of Pages, Columns, Lines, Where Relevant Passages of Relevant Figures Appear			
NMM						MM-DD-YYYY	ļ		
MAN .	1	US-4.	925,673		STEINER et al.	05-18-1990			
NMM	2	US-5,	013,556		WOOD De et al.	08-07-1991			
NMM	3	US-5,	284,656		PLATZ et al.	02-08-1994			
NMM	4	US-5,	451,569		WONG et al.	09-15-1995			
NMM ·	5		245,335		MASURE et al	06-12-2001	1		
NMM	6		291,654		HOSTETTER et al.	09-18-2001			
NMM	7	US-6.	420,135		KUNSOH et al.	07-16-2002			
NMM	- 8		503,511		WIZEYIANN et al.	01-07-2003			
-	<u>'                                      </u>	1 03-0,		REIG					
Examiner Initials	Cite No.	Office <sup>3</sup>	oreign Patent Do K			Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>4</sup>	
NMM	9	EP	401 384		ISHIKAWA, R.	03-13-1996	1 Garo / Apres		
NMM	10	wo	97/4115		MASURE, H., et al.	11-06-1997	1-53		
NMM	11	wo	97/09994	<b>Y</b>	BRILES, D., et al.	0. 20-1997	1-28, 40, 53	,	
NMM	12	WQ	9001337		HOSTETTER, M., et al.	05-21-1998	1-53		
NMM	13	wo	98/ 8970		KUNSCH, C., et al.	05-07-1398	1-53		
NMM	14	wo	99/5/187		TUOMANEN, E., et al.	10-14-1999	1-53		
NWM	15	wo	99/51266		WIZEMANN, T., et al.	10-14-1999	1-53		
				Ŀ					
		Y		. (	OTHER DOCUMENTS				
Examiner Initials	Cite No.	(b	clude name of the ook, magazine, jo ty and/or country	author ( umal, se	(in CAPITAL LETTERS), title of the rial, symposium, catalog, etc.), date,	article (when appropr page(s), volume-issu	nate), title of the item e number(s), publisher,	Т	
	16				elivery of peptide drugs: effect of par nteers," <i>Pharma Res.</i> , 1990, pp. 565		bility of leuprolide		

Unique citation designation number.

<sup>&</sup>lt;sup>2</sup> See attached Kinds of U.S. Patent Documents.

Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible.

<sup>&</sup>lt;sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

## FOR SCANNING ONLY

Substitute for form 1449A/PTO			Co	mplete if Knowr						
				Application Number	To be Assigne					
INFORM	IATION	DISCLOSUI	RE	Filing Date	Concurrently	Herewith				
STATEMENT BY APPLICANT				First Named Inventor	Tuomanen					
				Group Art Unit To be Assigned						
(Use	as many shee	us as necessary)		Examiner Name	To be Assigne	ed .				
Sheet	2	of :	2	Attorney Docket Number	044158/27301					
				OTHER DOCUMENTS						
Examiner Initials	Cite		scrial	or (in CAPITAL LETTERS), title of, symposium, catalog, etc.), date, pag						
	17	CUNDELL et al. pneumocytes and	"Rece	ptor specificity of adherence of stream endothelial cells in vitro," Micro F	tococcus pneumoniae athog., 1994, pp. 361	to human type-II -374, Vol. 17.				
	18	CUNDELL et al., "Strep ococcus pneumoniae and or o activates numan cells by the receptor for platelet-activating factor," Nature, 1995, pp. 435-438, vol.								
	19	HAMMERSCHMIDT et al, "Spire, a rovel pneutocoopeal surface protein with specific binding to secretory immunoglobulin A and secretory coopeant," Itol. Microbiol., 1997, pp. 1113-1124, Vol. 25.								
	20	IDANPAAN-HEIK experimental pneur	KEL mocos	ELA I., et al., "Nis see the rides interfere with the establishment and progression of excel pneumonia." J. Intert. Dis., 1997, pp. 704-712, Vol. 176.						
	21	LANGER, "New methods of trug delivery Schace, pp. 1527-1533, Vol. 249.								
·	22.	MALIK et al., "Polyethylene glynal (PEG)-modified granulocyte-macrophage colony-stimulating factor (GM-CSF) with conserved biological activity." Exp. Hematol. 1992, pp. 1028-1035, Vol. 20.								
	23			lectual localization of variable and coors sequences in Streptococcus pne						
	24	NEWMARK e al.	."J.	ppl. Biochem. 1982, pp. 185-189, V	/ol. 4.					
	25			MACEUTICAL SCIENCES, 18 <sup>th</sup> cd.		ck Publishing Co., Easton,				
	26	ROND et al. Bi	iologi J. Bl	cal role of the pneumococcal amidase	e. Cloning of the IMA	gene in Streptococcus				
	27	ROSENOW et al., "Contribution of novel choline-binding proteins to adherence, compization and immunogenicity of Streptococcus pneumoniae," Mol. Microbiol., 1997, p. 819, Vol. 23,								
	28	SHAPIRO et al., " 1991. p. 1453. Vol		rotective efficacy of polyvalent pneur	mococcal polysacchan	ide vaccine," NJEM,				
	29		•	enotypic tolerance: the search for bei	ta-lactum antibiotics t	hat kill nongrouding				
	30	TUOMANEN et al., "Microbiological and clinical significance of a new property of defective lysis in chical strains of pneumococci," J. Infect Dis., 1988, pp. 36-43, Vol. 158.								
	31		•	thogenesis of pneumococcal infection Their Drug Carrier System, 1991, pr		1280, Vol. 322.				
						\				
Exammer Signature	/N	. M. Minnifie	eld/	(09/26/2006)	Date Considered	09/26/2006				

<sup>\*</sup>Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

RTA01/2147980v1